

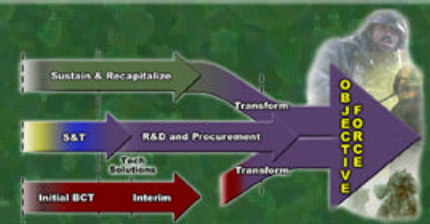
# **45th Annual NDIA FUZE Conference** **17-18 April 2001**



## **PEO Tactical Missiles**

**COL Jody Maxwell, Director**  
**System Integration & Operations**





# PEO TACTICAL MISSILES OVERVIEW





# **PROGRAM EXECUTIVE OFFICER TACTICAL MISSILES**

## **MISSION**

**Provide the American Soldier with the finest, combat effective, tactical missile systems in the world in a timely and cost-effective manner while fully supporting The Army's transformation.**

## **GOALS**

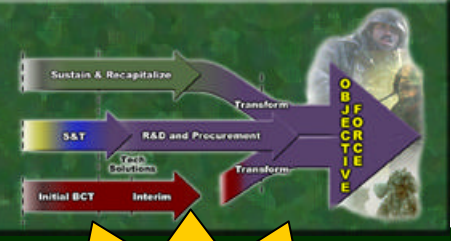
- **Excel beyond all others in fielding the best tactical missile systems in the world.**
- **Effectively team with industry.**
- **Build the Army Acquisition Corps of the future.**
- **Mature & weaponize critical technologies for the Objective Force.**
- **Reduce the Life Cycle Cost & in-theater logistics footprint of our missile systems.**

## **VISION**

**A world-class government / industry team that gives the American soldier an unparalleled, overmatch tactical missile capability that allows our Army to fight and win on the 21st century battlefield with minimal casualties in the shortest time possible.**



# PEO TACTICAL MISSILES



## PEO TACTICAL MISSILES

DEPUTY PEO  
PRINCIPAL STAFF  
EUROPEAN REP

### FY00 MANPOWER REQUIREMENTS

	CORE	MATRIX
CIVILIAN	281	611
MILITARY	37	10
CONTRACTOR	76	502
TOTAL	394	1123

### PM

### AVIATION ROCKETS & MISSILES

LONGBOW HELLFIRE ACAT IC  
LASER HELLFIRE  
HYDRA 70  
MODERNIZED HELLFIRE  
APKWS

### AVIATION

### PM

### ATACMS - BAT

ATACMS / BAT ACAT ID  
BAT  
BAT P3I  
BLK II  
ATACMS / APAM ACAT IC  
BLK I

### PM MLRS

M270A1 ACAT1C  
IFCS ACAT III  
ILMS ACAT III  
ER-MLRS ACAT III  
GMLRS ACAT III  
HIMARS ACTD

### FIRE SUPPORT

### PM CCAWS

TOW FIRE & FORGET  
IBAS ACAT II  
ITAS  
T2SS

### PM JAVELIN

JAVELIN ACAT IC

### PM

### KINETIC ENERGY MISSILES

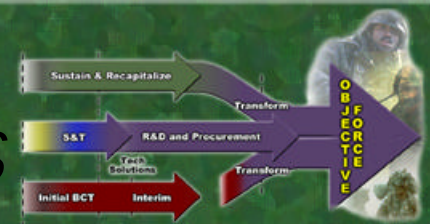
LOSAT ACTD+

### MANEUVER





# FAMILY OF DEEP FIRES GUIDED ROCKETS AND MISSILES

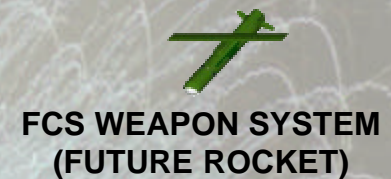
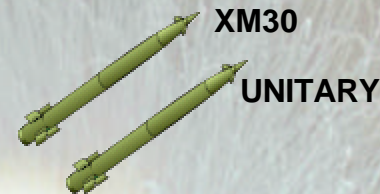


## NEAR-TERM (FY00 - 07)

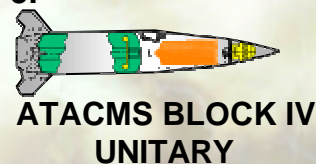
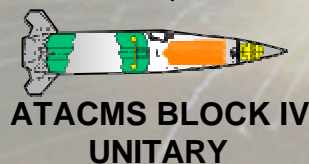
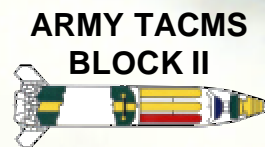
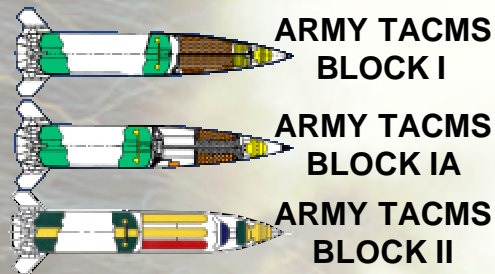
## MID-TERM (FY08 - 16)

## FAR-TERM (FY17 - 25)

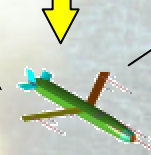
### ROCKETS



### MISSILES



CONTINUOUS  
TECHNOLOGY  
INSERTION



FUTURE MISSILE

TACMS 2020

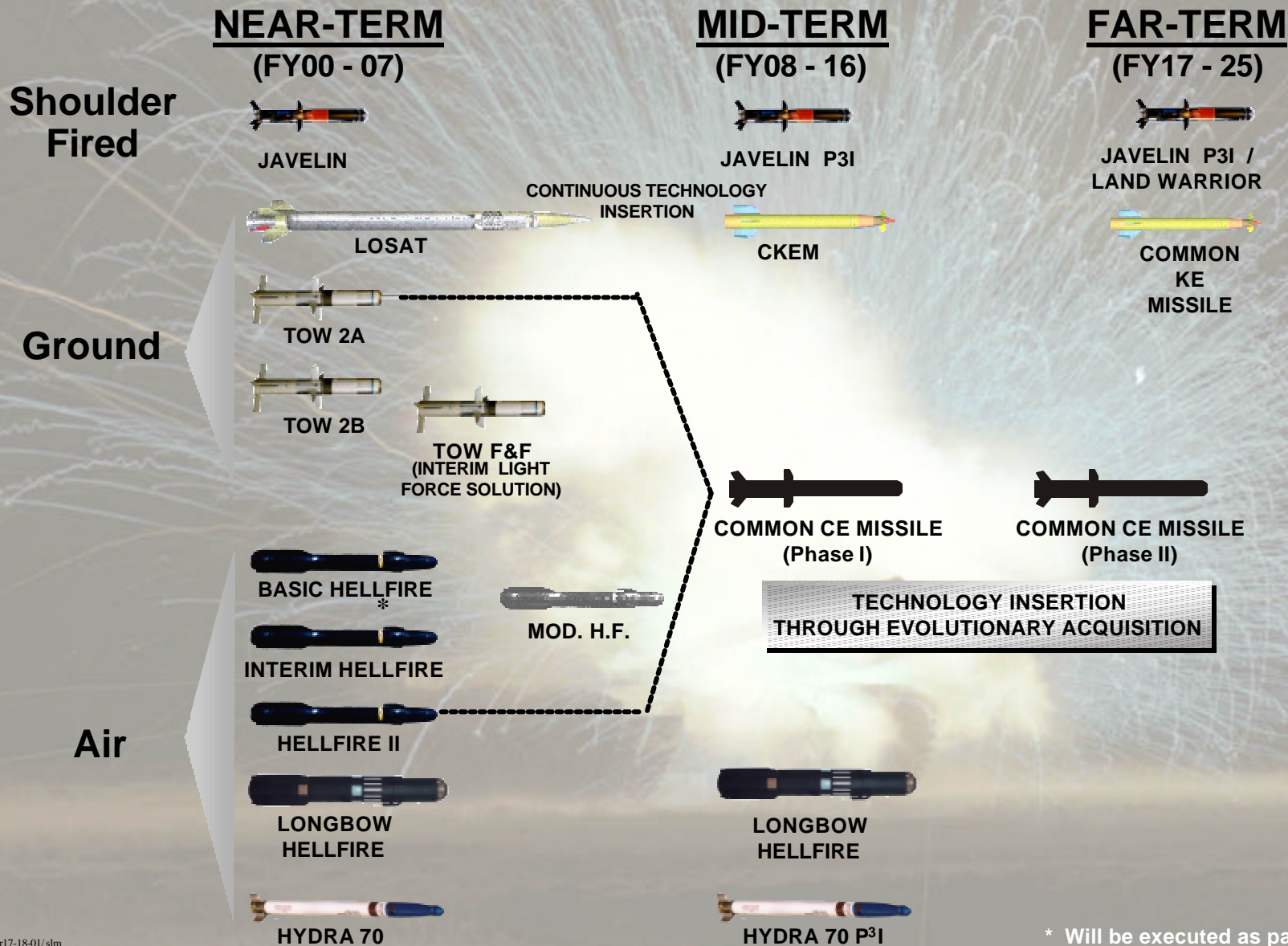
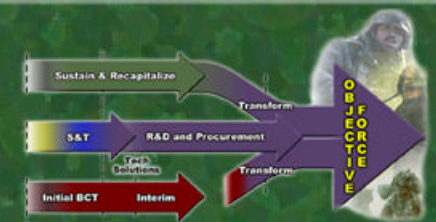
### LAUNCHERS







# FAMILY OF MANEUVER AND AVIATION MISSILES



\* Will be executed as part of CM Program





**98**

**3**

**FIELDINGS**

**CONTINUE**

## NEXT TWO YEARS

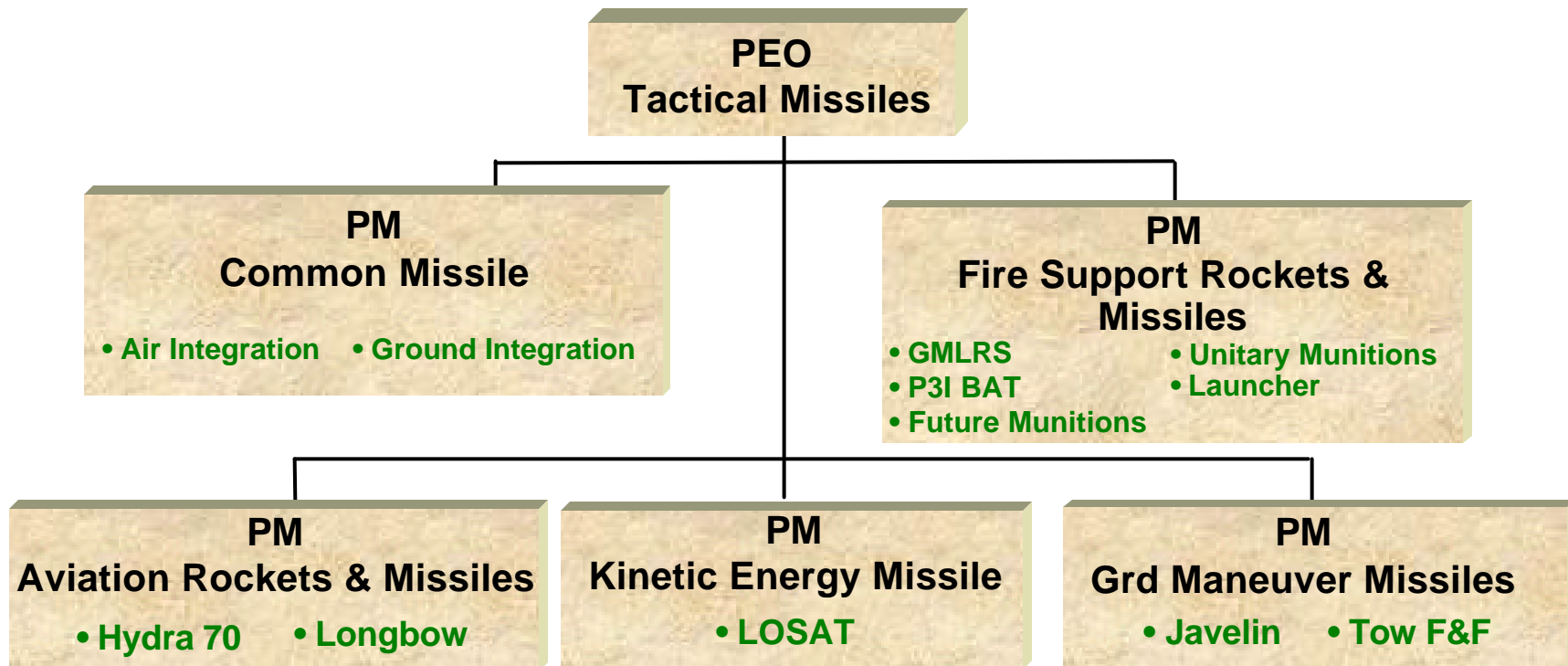
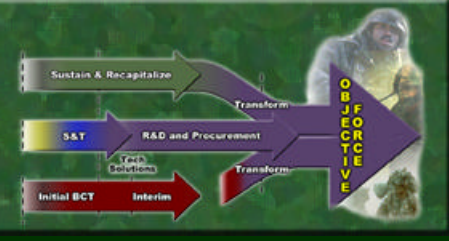


## OPTEMPO IS INCREASING





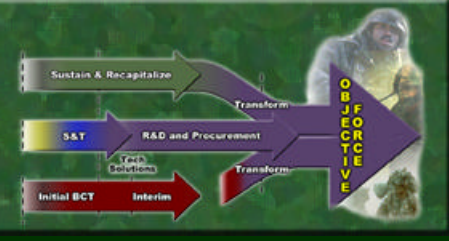
# Proposed Organization







# *THE SITUATION*

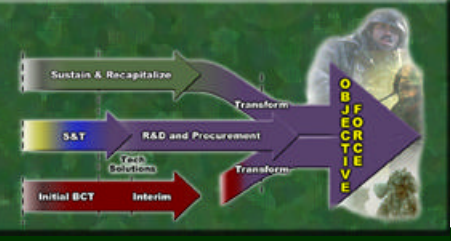


- In 1991 Following Desert Storm a requirement for <1% hazardous duds left on Battlefield was established
- Analysis of proposals indicated SDF as the most feasible option to meet the user requirement
- SDF development contract issued in 1992 with planned incorporation into ER MLRS in 1998
- To date Tactical Missile PEO has expanded approximately \$64M for development, testing of HRE, and LRIP for XM 235 SDF





# *THE RESULTS*



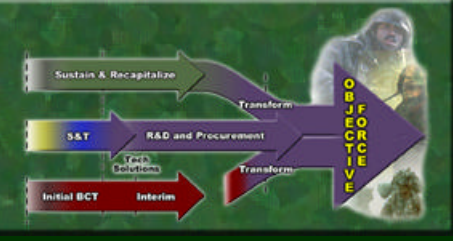
- The Production of ER MLRS began in 1996 without a SDF
- FMS cases have been lost and others are jeopardized due to the lack of a SDF
- HRE will not meet required rate
- Proposed HRE recovery plan is high risk
- LRIP contract terminated

**Bottom Line: Over ten years and \$64M invested  
in a solution for <1% hazardous duds with no  
acceptable solution in sight**





# TECHNOLOGY TRENDS



**FIRE AND  
FORGET  
TECHNOLOGY**

**FOCAL PLANE  
ARRAY (FPA)**

**DUAL MODE /  
MULTI-MODE  
SEEKERS**

**DEWAR  
DETECTOR  
COOLERS (DDC)**

**TANDEM  
WARHEADS**

**INERTIAL  
MEASUREMENT  
UNITS (IMU)**

**GLOBAL  
POSITIONING  
SYSTEMS (GPS)**

**GLOBAL  
POSITIONING  
SYSTEMS GUIDANCE  
PACKAGE (GGP)**

**ELECTRONIC  
SAFE AND ARM  
ES&A  
DEVICES**

**ADVANCED  
SIGNAL  
PROCESSING**



**THESE TECHNOLOGY TRENDS BRING TECHNOLOGY CHALLENGES**

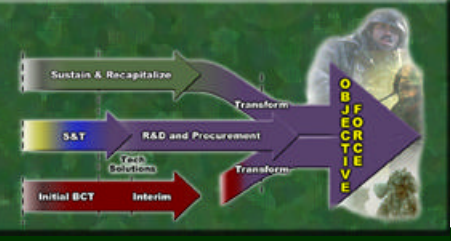


**FUZE TECHNOLOGY DEVELOPMENT MUST KEEP UP WITH ADVANCES  
IN TECHNOLOGY**





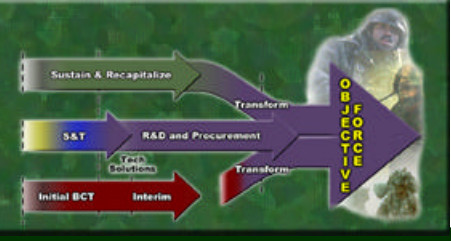
# *PATH FORWARD*



- U.S. is committed to lower UXO on the Battlefield
- New DOD Policy issued 10 Jan 2001 stating a desire to field future submunitions with a 99% or higher function rate
  - “Future” submunition weapon is one that will reach MS II after first quarter of FY 2005
- It’s clear we can’t continue to do business as usual
- Consider other FUZE designs (Improved mechanical, Pyro delays)
- Most promising option is to pursue a Co-operative development of a European SDF that will transfer the qualified design to a US contractor for production



# *PATH FORWARD*

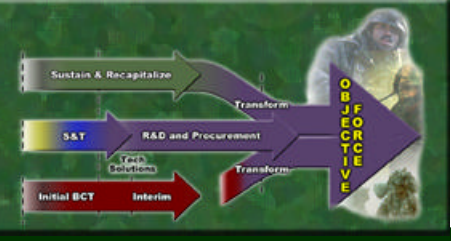


- **Industrial base must define common architecture**
- **Combine performance & environmental requirements for targeted programs**
- **Common module approach**
  - Flexible hardware building blocks
  - Programmable for multiple applications
- **Common Components**
  - Configured to adapt to peculiar system interfaces
  - Packaged to accommodate worst case scenario
- **Partitioned for Growth**
  - Unique functions & interfaces segregated





# CONCLUSION



- **Concern over dirty battlefield is increasing as evidenced by 99% UXO requirements**
- **Quantities and funding for specific weapons systems are decreasing**
- **Fuze industrial base must develop designs that are transportable to other systems. Production facilities must be capable of producing more than one item at high rates**

**We simply cannot afford to develop and support new unique pinpoint designs for each system**